

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 21260-021001	Application No. 10/804,452
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Rapport, et al.	
		Filing Date March 19, 2004	Group Art Unit 2841

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Document Date	Patentee		Subclass	File Nos.
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		5,229,641	07/20/1993	Katayama			
		5,289,346	02/22/1994	Carey et al			
		5,337,388	08/09/1994	Jacobowitz et al			
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A.A. ↓		6,013,948	01/11/2000	Akram et al			

Examiner Signature /Andargie Aychillhum/	Date Considered 07/02/2007
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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(37 CFR § 1.98(b))			

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		Filing Date March 19, 2004	Group Art Unit 2841
(37 CFR § 1.58(b))			

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Foreign Patent Documents or Published Foreign Patent Applications

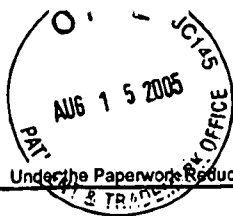
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		Filing Date March 19, 2004	Group Art Unit 2841

Other Documents (include Author, Title, Date, and Place of Publication)		
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A.A. ↑		PCT/US2006/017015, International Search Report and Written Opinion dated October 17, 2006
		PCT/US2005/013345, International Preliminary Report on Patentability dated November 2, 2006
		PCT/US2005/016764, International Preliminary Report on Patentability dated November 23, 2006
		PCT/US2005/010756, International Search Report and Written Opinion dated October 12, 2006
		PCT/US2005/010756, International Preliminary Report on Patentability dated April 12, 2007
		PCT/US2005/039307, International Search Report and Written Opinion dated September 26, 2006
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PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 9

Complete/If Known

Application Number	10/804,452
Filing Date	March 19, 2004
First Named Inventor	Russell Rapport, et al.
Art Unit	2816
Examiner Name	TBA
Attorney Docket Number	254-094-PCT2/C1/AK 153715

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
A.A.		US-6,919,626 B2	7/19/2005	Burns	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature

/Andargie Aychillhum/

Date Considered

07/02/2007

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Substitute for form 1449/PTO				Application Number	10/804,452
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	March 19, 2004
(Use as many sheets as necessary)				First Named Inventor	Russell Rapport, et al.
				Art Unit	2836 2841
				Examiner Name	TEA A.A.
Sheet	2	of	9	Attorney Docket Number	254-094-PCT2/C1/AK 153715

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A.A.		US-6,316,825	11/13/2001	Park, et al.	
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		US-5,804,870	9/8/1998	Burns	
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✓		US-5,789,815	8/4/1998	Tessier, et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/804,452
		Filing Date	March 19, 2004
		First Named Inventor	Russell Rapport, et al.
		Art Unit	2841
		Examiner Name	REA A.A.
Sheet 3 of 9	Attorney Docket Number	254-094-PCT2/C1/AK 153715	

U.S. PATENT DOCUMENTS					
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A.A.		US-5,783,464	7/21/1998	Burns	
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Examiner Signature	Andarzi M. Alomari	Date Considered	1/14/08
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		First Named Inventor	Russell Rapport, et al.
		Art Unit	2841
		Examiner Name	TA A.A.
Sheet 4 of 9	Attorney Docket Number	254-094-PCT2/C1/AK 153715	

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A.A.		US-5,168,926	12/8/1992	Watson, et al.	
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Examiner Signature	/Andargie Aychillhum/	Date Considered	07/02/2007
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Substitution for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/804,452
				Filing Date	March 19, 2004
				First Named Inventor	Russell Rapport, et al.
				Art Unit	2556 2841
				Examiner Name	TON A.A.
				Attorney Docket Number	254-094-PCT2/C1/AK 153715
Sheet	5	of	9		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A-A		US-2002/0030995	3/14/2002	Shoji	
		US-2001/0035572	11/1/2001	Isaak	
		US-2001/0015487	8/23/2001	Forthun	
		US-2001/0006252 A1	7/5/2001	Kim, et al.	
		US-6,891,729	5/10/2005	Ko, et al.	
		US-6,876,074 B2	4/5/2005	Kim	
		US-6,849,949	2/1/2005	Lyu, et al.	
		US-6,833,984 B1	12/21/2004	Belgacem	
		US-6,812,567	11/2/2004	Kim, et al.	
		US-6,781,240	8/24/2004	Choi, et al.	
		US-6,768,660	7/27/2004	Kong, et al.	
		US-6,657,134	12/2/2003	Spielberger, et al.	
		US-6,452,826	9/17/2002	Kim, et al.	
		US-6,449,159	9/10/2002	Haba	
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		US-6,303,981	10/16/2001	Moden	
		US-6,262,895 B1	7/17/2001	Forthun	
		US-6,028,352	2/22/2000	Eide	
✓		US-5,925,934	7/20/1999	Lim	
A-A		US-5,835,988	11/10/1998	Ishii	

[illegible]

Examiner Signature	/Andargie Aychillhum/	Date Considered	07/02/2007
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				Application Number	10/804,452
				Filing Date	March 19, 2004
				First Named Inventor	Russell Rapport, et al.
				Art Unit	2840 2841
				Examiner Name	TEA A.A.
				Attorney Docket Number	254-094-PCT2/C1/AK 153715
Sheet	6	of	9		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A/A		US-5,778,522 A	7/14/1998	Burns	
		US-5,744,827	4/28/1998	Jeong, et al.	
		US-5,677,569	10/14/1997	Choi, et al.	
		US-5,243,133	9/7/1993	Engle, et al.	
		US-5,240,588	8/3/1993	Uchida	
		US-5,219,794	6/15/1993	Satoh, et al.	
		US-5,158,912	10/27/1992	Kellerman, et al.	
		US-5,122,862	6/16/1992	Kajihara, et al.	
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		US-4,839,717	6/13/1989	Phy, et al.	
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		US-2005/0040508 A1	2/24/2005	Lee	
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↓		US-2004/0238931 A1	12/2/2004	Haba, et al.	
		US-2004/0217471 (A1)	11/4/2004	Haba	

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Examiner Signature	/Andargie Aychillhum/	Date Considered	07/02/2007
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/804,452
		Filing Date	March 19, 2004
		First Named Inventor	Russell Rapport, et al.
		Art Unit	2841
		Examiner Name	FOA 2841 A.A.
Sheet 7 of 9	Attorney Docket Number	254-094-PCT2/C1/AK 153715	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A.A.		US-2004/0203190 A1	10/14/2004	Pflughaupt, et al.	
		US-2004/0104470 A1	6/3/2004	Bang, et al.	
		US-2004/0031972 A1	2/19/2004	Pflughaupt, et al.	
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		US-6,002,589	12/14/1999	Perino, et al.	
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		US-5,959,839	9/28/1999	Gates	
		US-5,953,215	9/14/1999	Karabatsos	
		US-5,899,705	5/4/1999	Akram	

FOREIGN PATENT DOCUMENTS						
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Examiner Signature	/Andargie Aychillhum/	Date Considered	07/02/2007
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Substitute for form 1449/PTO			Complete if known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/804,452	
			Filing Date	March 19, 2004	
			First Named Inventor	Russell Rapport, et al.	
			Art Unit	2882 2841	
			Examiner Name	BA A.A.	
Sheet	8	of	9	Attorney Docket Number	254-094-PCT2/C1/AK 153715

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A.A.		US-5,751,553	5/12/1998	Clayton	
		US-5,654,877	8/5/1997	Burns	
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		US-5,397,916	3/14/1995	Normington	
		US-5,347,428	9/13/1994	Carson, et al.	
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		US-5,012,323	4/30/1991	Farnworth	
		US-4,985,703	1/15/1991	Kaneyama	
		US-4,821,007	4/11/1989	Fields, et al.	
	Y		US-4,406,508	9/27/1983	Sadigh-Behzadi
		US-3,766,439	10/16/1973	Isaacson	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

Examiner Signature	/Andargie Aychillhum/	Date Considered	07/02/2007
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Application Number				10/804,452	
Filing Date				March 19, 2004	
First Named Inventor				Russell Rapport, et al.	
Art Unit				285 2811	
Examiner Name				285 A.A.	
Attorney Docket Number				254-094-PCT2/C1/AK 153715	

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Examiner Signature	/Andargie Aychillhum/	Date Considered	07/02/2007
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Sheet	1	of	3
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Complete if Known

Application Number	10/804,452
Filing Date	March 19, 2004
First Named Inventor	Russell Rapport, et al.
Art Unit	2856 2841
Examiner Name	BOB A.A.
Attorney Docket Number	254-094-PCT2/C1/AK 153715

U.S. PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
A.A.		WO 03/037053 A1	5/1/2003	Cady, et al.		
A.A.		JP 63-153849 (A)	6/27/1998	Matsubara		
A.A.		JP 4-209562 (A)	7/30/1992	Uzuka, et al.		
A.A.		JP 404368167 (A)	12/21/1992	Omura		
A.A.		JP 2003/347503 (A)	12/5/2003	Toshiyuki, et al.		
A.A.		JP 2003/347475 (A)	12/5/2003	Mitsuru		

**Examiner
Signature**

/Andargie Aychillhum/

Date Considered

~~07/02/2007~~

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Application Number				10/804,452	
Filing Date				March 19, 2004	
First Named Inventor				Russell Rapport, et al.	
Art Unit				284	
Examiner Name				A.A.	
Attorney Docket Number				254-094-PCT2/C1/AK 153715	
Sheet	3	of	3		

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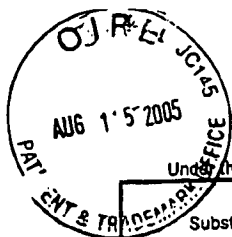
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code ³ –Number ⁴ –Kind Code ⁵ (if known)				
AA		DE 004215467 A1	11/12/1992	Chun		
AD		DE 004214102 A1	12/3/1992	Chun		

Examiner Signature	/Andargie Aychillhum/	Date Considered	07/02/2007
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

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Application Number	10/804,452
Filing Date	March 19, 2004
First Named Inventor	Russell Rapport, et al.
Art Unit	2841
Examiner Name	A.A.
Attorney Docket Number	254-094-PCT2/C1/AK 153715

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
A.A.		1992 Proceedings, 42nd Electronic Components & Technology Conference, May 18-20, 1992	
A.A.		Research Disclosure, Organic Card Device Carrier, 31318, May 1990, No. 313	
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A.A.		Orthogonal Chip Mount - A 3D Hybrid Wafer Scale Integration Technology, International Electron Device Meeting, IEDM Technical Digest, Washington, D.C., Dec. 6-9, 1987	

Examiner Signature	/Andargie Aychillhum/	Date Considered	07/02/2007
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 21260-021001	Application No. 10/804,452
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Rapport, et al.	
		Filing Date March 19, 2004	Group Art Unit 2841
(37 CFR §1.98(b))			

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Examiner Initial	Desig. ID	Document Number	Document Date	Patentee		Subclass	File Nos.
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Examiner Signature <i>Andarje Mellomen</i>	Date Considered 01/14/2008
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 21260-021001	Application No. 10/804,452
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		Filing Date March 19, 2004	Group Art Unit 2841

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Examiner Signature: <i>Andanije M. Evonnen</i>	Date Considered: <i>01/14/2008</i>
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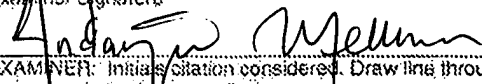
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Examiner Signature <i>Andreas Jellauer</i>	Date Considered 1/14/2006
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Rapport, et al.	
		Filing Date March 19, 2004	Group Art Unit 2841

Other Documents (include Author, Title, Date, and Place of Publication)		
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		PCT/US2005/010756, International Search Report and Written Opinion dated October 12, 2006
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Form PTO-1449 (Modified)
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SERIAL NO.

254-094-PCT-2-C1

10/804,452

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT

Russell Rapport, et al.

FILING DATE

March 19, 2004

GROUP

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(37 CFR 1.98(b))

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A.A.	2003309246(A)	10/31/2003	Japan			Partial	
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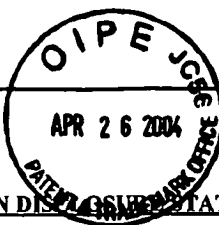
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Patent and Trademark Office**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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(37 CFR 1.98(b))

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10/804,452

APPLICANT

Rapport, et al

FILING DATE

3/19/04

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						Yes	No
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	"Design Techniques for Ball Grid Arrays," William R. Newberry, Xynetix Design Systems, Inc.

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(37 CFR 1.98(b))

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						Yes	No
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APPLICANT

Rapport, et al

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GROUP

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(37 CFR 1.98(b))

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Patent and Trademark Office**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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(37 CFR 1.98(b))

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0254-094-PCT-2-C1

10/804,452

APPLICANT

Rapport, et al

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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

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0254-094-PCT-2-C1

10/804,452

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Rapport, et al

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